



FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897
				APPLICANT: Swager, et al.	
Sheet	1	of	1	GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
T.2	C60	ZAHN, S., et al., Three-Dimensional Electronic Delocalization in Chiral Conjugated Polymers, <i>Agnew. Chem. Int. Ed.</i> , 2002, 41, No. 22, p. 4225-4230, WILEY-VCH Verlag GmbH & Co., KGaA, Weinheim	

EXAMINER:

DATE CONSIDERED:

3/2/05

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00
				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897
				APPLICANT: Swager, et al.	
				GROUP ART UNIT: 1711	
Sheet	1	of	5		

U.S. PATENT DOCUMENTS

Examiner's Initials OIP T.Z.	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1	4,356,429		Tang	10-26-1982
	A2	4,687,732		Ward et al.	08-18-1987
NOV 22 2004	A3	4,927,768		Coughlin et al.	05-22-1990
	A4	4,946,890		Meador	08-07-1990
	A5	4,992,302		Lindmayer	02-12-1991
	A6	5,155,149		Atwater et al.	10-13-1992
	A7	5,194,393		Hugl et al.	03-16-1993
	A8	5,236,808		Smothers	08-17-1993
	A9	5,244,813		Walt et al.	09-14-1993
	A10	5,254,633		Han et al.	10-19-1993
	A11	5,364,797		Olson et al.	11-15-1994
	A12	5,414,069		Cumming et al.	05-09-1995
	A13	5,451,683		Barrett et al.	09-19-1995
	A14	5,511,547		Markle et al.	04-30-1996
	A15	5,512,490		Walt et al.	04-30-1996
	A16	5,532,129		Heller	07-02-1996
	A17	5,540,999		Yamamoto et al.	07-30-1996
	A18	5,546,889		Wakita et al.	08-20-1996
	A19	5,554,747		Sharma et al.	09-10-1996
	A20	5,556,524		Albers	09-17-1996
	A21	5,563,056		Swan et al.	10-08-1996
	A22	5,565,322		Heller	10-15-1996
	A23	5,580,527		Bell et al.	12-03-1996
	A24	5,585,646		Kossovsky et al.	12-17-1996
	A25	5,591,787		Schlennert et al.	01-07-1997
	A26	5,597,890		Jenekhe	01-28-1997
	A27	5,607,864		Ricchiero et al.	03-04-1997
	A28	5,679,773		Holmes	10-21-1997
	A29	5,700,696		Chandross et al.	12-23-1997
	A30	5,705,348		Meade et al.	01-06-1998
	A31	5,709,994		Pease et al.	01-20-1998
	A32	5,710,197		Fischer et al.	01-20-1998
	A33	5,723,218		Haugland et al.	03-03-1998
	A34	5,869,562		Lindquist et al.	02-09-1999
	A35	6,020,426		Yamaguchi et al.	02-01-2000
	A36	6,259,277	B1	Tour et al.	07-10-2001
	A37	2002/0040805	A1	Swager	04-11-2002
	A38	2002/0150697	A1	Swager et al.	10-17-2002
	A39	2003/0134959	A1	Hancock et al.	07-17-2003
	A40	2003/0178607	A1	Swager et al.	09-25-2003
V.Z.	A41	2004/0043251	A1	Epstein et al.	04-04-2004
	A42	2004/0121337	A1	Deans et al.	06-24-2004

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT Sheet 2 of 5				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00	
				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897	
				APPLICANT: Swager, et al.		
				GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel	

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
T, Z.	B1	DE	19744792	A1	Hoechst AG	04-15-1999	
	B2	DE	19806037	A1	Aventis Corp.	08-19-1999	
	B3	EP	0442123	A1	Neste Oy	08-21-1991	
	B4	EP	0933655	A1	ETHZ Institut	08-04-1999	
	B5	EP	1011154	A1	Sony Corp.	06-21-2000	
	B6	JP	06-322078	A1	Yamamoto Ryuichi	11-22-1999	
	B7	WO	89/00593	A1	Memtech Ltd.	01-26-1989	
	B8	WO	95/16681	A1	Trustees of University of Pennsylvania	06-22-1995	
	B9	WO	99/57222	A1	MIT	11-11-1999	
	B10	WO	01/57140	A1	MIT	08-09-2001	
	B11	WO	02/16463	A2	MIT	02-28-2002	
	B12	WO	03/048226	A2	Nomadics, Inc.	06-12-2003	
V	B13	WO	04/007634	A2	MIT	01-22-2004	
T, Z.	B14	WO	04/057014	A2	Nomadics, Inc.	07-08-2004	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
T, Z.	C1	BRABEC, C., et al. "Plastic Solar Cells", <i>Adv. Funct. Mater.</i> , 11(1), (2001), pp. 15-26	
	C2	CHEN, L., et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer," <i>PNAS</i> , 96(22), (1999), pp: 12287-12292	
	C3	CHEN, L., et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation," <i>Journal of the American Chemical Society</i> , 122, pp. 9302-9303	
	C4	COTTS, P.M., et al., "Equilibrium Flexibility of a Rigid Linear Conjugated Polymer," <i>Macromolecules</i> , 29 (1996), pp. 7323-7328	
	C5	DEANS, R., et al., "A Poly(p-phenyleneethynylene) with a Highly Emissive Aggregated Phase", <i>Journal of the American Chemical Society</i> , 122 (2000), pp. 8565-8566	
	C6	FIESEL, R., et al., "Aggregation-induced CD effects in chiral poly(2,5-dialkoxy-1,4-phenylene)s," <i>Acta Polym.</i> , 49, (1998), pp. 445-449	
	C7	FIESEL, R., et al., "A chiral poly(para-phenyleneethynylene) (PPE) derivative," <i>Macromol. Rapid Commun.</i> , 19, (1998), pp. 427-431	
	C8	FIESEL, R., et al., "On the Solid State Aggregation of Chiral Substituted Poly(para-phenylene)s (PPPs)," <i>Synthetic Metals</i> , 102, (1999), pp. 1457-1458	
	C9	FU, D., et al., "Alternating Poly(PyridylVinyenePhenylene Vinylene)s: Synthesis and Solid State Organizations," <i>Tetrahedron</i> , 53(45), (1997), pp: 15487-15494	
V	C10	GAYLORD, B.S., et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," <i>PNAS</i> , 99 (17), (2002), pp. 10954-10957	
T, Z.	C11	GAYLORD, B., et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies," <i>J. Am. Soc.</i> , 123, (2001), pp: 6417-6418	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00
				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897
				APPLICANT: Swager, et al.	
				GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel
Sheet	3	of	5		

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
T.2	C12	GOLDFINGER, M. et al., "Fused Polycyclic Aromatics via Electrophile-Induced Cyclization Reactions: Application to the Synthesis of Graphite Ribbons", <i>Journal of the American Chemical Society</i> , 116, (1994), pp. 7895-7896	
	C13	HALKYARD, C.E., "Evidence of Aggregate Formation of 2,5-Dialkylpoly (p-phenyleneethynylene)s in Solution and Thin Films," <i>Macromolecules</i> , 31(25), (1998), pp: 8655-8659	
	C14	HARRISON, B.S., et al., "Amplified Fluorescence Quenching in a Poly(p-phenylene)-Based Cationic Polyelectrolyte," <i>J. Am. Chem. Soc.</i> , 122, (2000), pp: 8561-8562	
	C15	HEEGER, P.S., et al., "Making sense of polymer-based biosensors," <i>PNAS</i> , 96(22), (1999), pp: 12219-12221	
	C16	HÖGER S., et al., "Synthesis, Aggregation, and Adsorption Phenomena of Shape-Persistent Macrocycles with Extraannular Polyalkuly Substituents," <i>Journal of the American Chemical Society</i> , 123(24), (2001), pp. 5651-5659	
	C17	JONES, R.M., et al., "Superquenching and Its Applications in J-Aggregated Cyanine Polymers," <i>Langmuir</i> , 17, (2001), pp. 2568-2571	
	C18	KIM, J., et al., "Nanoscale Fibrils and Grids: Aggregated Structures from Rigid-Rod Conjugated Polymers," <i>Macromolecules</i> , 32(5), (1999), pp: 1500-1507	
	C19	KIM, J., et al., "Ion-Specific Aggregation in Conjugated Polymers: Highly Sensitive and Selective Fluorescent Ion Chemosensors," <i>Agnew Chem. Int. Ed.</i> , 39(21), (2000), pp. 3868--3872	
	C20	KIM, J., et al., "Control of conformational and interpolymer effects in conjugated polymers," <i>Nature</i> , 411, (2001), pp.1030-1034	
	C21	KIM, J., et al., "Directing Energy Transfer within Conjugated Polymer Thin Films," <i>Journal of the American Chemical Society</i> , 123(46), (2001), pp. 11488-11489	
	C22	KIM, J., et al., "Structural Control in Thin Layers of Poly(P-phenyleneethynylene)s: Photophysical Studies of Langmuir and Langmuir-Blodgett Films," <i>Journal of the American Chemical Society</i> , 124 (26), (2002), p. 7710	
	C23	KIM, Y., et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π-Conjugated Polymer Chains in Blended Polymeric Systems," <i>Chemistry of Materials</i> , 13(8), 266	
	C24	KÖHLER, B., et al., "Novel Chiral Macrocycles Containing Two Electronically Interacting Arylene Chromophores," <i>Chem. Eur. J.</i> , 7(14), (2001), pp. 3000-3004	
	C25	KRAFT, A., et al., "Electroluminescent Conjugated Polymers – Seeing Polymers in a New Light," <i>Agnew. Chem. Int. Ed.</i> , 37, (1998), pp. 402-428	
	C26	KUSHON, S.A., et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," <i>The ACS Journal of Surfaces and Colloids</i> , 18(20), (2002), pp. 7245-7249	
	C27	LANGVELD, B.M.W., et al., "Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly{3,4-di[(S)-2-methylbutoxy]thiophene},," <i>Journal of the American Chemical Society</i> , 118, (1996), pp. 4908-4909	
V	C28	LEVITSKY, I.A., et al., "Energy Migration in a Poly(phenylene ethynylene): Determination of Interpolymer Transport in Anisotropic Langmuir-Blodgett Films," <i>J. Am. Chem. Soc.</i> , 121(7), (1999), pp: 1466-1472	
T.2.	C29	LEVITSKY, I.A., et al., "Mass and Energy Transport in Conjugated Polymer Langmuir-Blodgett Films; Conductivity, Fluorescence, and UV-Vis Studies," <i>Macromolecules</i> , 34, (2001), pp. 2315-2319	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00
				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897
				APPLICANT: Swager, et al.	
				GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel
Sheet	4	of	5		

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
T. Z.	C30	LI, M., et al., "Novel Surfactant-Free Stable Colloidal Nanoparticles Made of Randomly Carboxylated Polystyrene Ionomers," <i>Macromolecules</i> , 30, (1997), pp: 2201-2203	
	C31	LUO, L., et al., "Thermodynamic Stabilization Mechanism of Block Copolymer Vesicles," <i>Journal of the American Chemical Society</i> , 123(5), (2001), pp. 1012-1013	
	C32	MCQUADE, D.T., et al., "Conjugated Polymer-Based Chemical Sensors," <i>Chem. Rev.</i> , 100,(2000), pp. 2537-2574	
	C33	MCQUADE, D.T., et al., "Two-Dimensional Conjugated Polymer Assemblies: Interchain Spacing for Control of Photophysics," <i>Journal of the American Chemical Society</i> , 122, (2000), pp. 5885-5886	
	C34	MIAO, Y., et. al., "Fluorescence Sensory Polymers Containing Rigid Non-planar Aromatic Scaffolds," <i>Poly. Prep. Div. Poly. Chem ACS</i> , 39, pp: 1081-1082	
	C35	MITTSCHKE, U. et al., "The electroluminescence of organic materials," <i>J. Mater. Chem.</i> , 10, (2000), pp. 1471-1507	
	C36	MOON, J.H., et al., "Capture and detection of a quencher labeled oligonucleotide by poly)phenylene ethynylene) particles," <i>Chem. Commun.</i> , 1, (2003), pp. 104-105	
	C37	NORVEZ, S., et al., "Epitaxogens: mesomorphic properties of triptycene derivatives," <i>Liquid Chemicals</i> , 14(5), (1993), pp. 1389-1395	
	C38	ODA, M., et al., "Circularly Polarized Electroluminescence from Liquid-Crystalline Chiral Polyfluorenes," <i>Advanced Materials</i> , , 12(5), (2000), pp. 362-365	
	C39	ODA, M., et al., "Chiroptical properties of chiral-substituted polyfluorenes," <i>Synthetic Metals</i> , 111-112, (2000), pp. 575-577	
	C40	PENG, K., et al., "Efficient Light Harvesting by Sequential Energy Transfer across Aggregates in Polymers of Finite Conjugational Segments with Short Aliphatic Linkages," <i>J. Am. Chem. Soc.</i> , 123, (2001), pp. 11388-11397	
	C41	PEETERS, E., et al., "Circularly Polarized Electroluminescence from a Polymer Light-Emitting Diode," <i>Journal of the American Chemical Society</i> , 119, (1997), pp. 9909-9910	
	C42	PLACE, I., et al., "Stabilization of the Aggregation of Cyanine Dyes at the Molecular and Nanoscopic Level," <i>Langmuir</i> , 16, (2000), pp: 9042-9048	
	C43	PSCHIRER, N.G., et al., "Poly(fluoreneethynylene)s by Alkyne Metathesis: Optical Properties and Aggregation Behavior," <i>Macromolecules</i> , 33, (2000), pp: 3961-3963	
	C44	SNOW, A.W., et al., "Synthesis and Evaluation of Hexafluorodimethylcarbinol Functionalized Polymers as Microsensor Coatings," <i>J. App. Polymer Science</i> , 43, (1991), pp: 1659-1671	
	C45	SWAGER, T.M., et al., "Fluorescence Studies of Poly(<i>p</i> -phenyleneethynylene)s: The Effect of Anthracene Substitution," <i>J. Phys. Chem.</i> , 99, (1995), pp: 4886-1893	
	C46	SWAGER, T.M., "The Molecular Wire Approach to Sensory Signal Amplification," <i>Acct. of Chem. Research</i> , 31(5), (1998), pp: 201-207	
	C47	TAN, C., et al., "Photophysics, aggregation and amplified quenching of a water-soluble poly(phenylene ethynylene)," <i>Chem. Commun.</i> , (2002), pp. 446-447	
	C48	VAN HOUTEN, K.A., et al., "Rapid Luminescent Detection of Phosphate Esters in Solution and the Gas Phase Using (dppe)Pt{S2C2(2-pyridyl)(CH2CH2OH)}," <i>J. Am. Chem. Soc.</i> , 120, (1998), pp: 12359-12360	
	C49	WALTERS, K.A., et al., "Photophysical Consequences of Conformation and Aggregation in Dilute Solutions of π -Conjugated Oligomers," <i>Langmuir</i> , 15, (1999), pp. 5676-5680	
T. Z.	C50	WEDER, C., et al., "Efficient Solid-State Photoluminescence in New Poly(2.5-dialkoy-p-phenyleneethynylene)s," <i>Macromolecules</i> , 29, (1996), pp: 5157-5165	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/621,041	ATTY. DOCKET NO.: M0925.70137US00
				FILING DATE: July 15, 2003	CONFIRMATION NO.: 8897
				APPLICANT: Swager, et al.	
Sheet	5	of	5	GROUP ART UNIT: 1711	EXAMINER: Irina Sopjia Zemel

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
T. Z.	C51	WU, C., et al., "Novel Nanoparticles Formed via Self-Assembly of Poly(ethylene glycol-b-sebacic anhydride) and Their Degradation in Water," <i>Macromolecules</i> , 33, (2000), pp: 9040-9043	
	C52	YANG, J., et al., "Porous Shape Persistent Fluorescent Polymer Films: An Approach to TNT Sensory Materials," <i>Journal of the American Chemical Society</i> , 120(21), (1998), pp. 5321-5322	
	C53	YANG, J., et al., "Fluorescent Porous Polymer Films as TNT Chemosensors: Electronic and Structural Effects," <i>J. Am. Chem. Soc.</i> , 120(46), (1998), pp. 11864-11873	
	C54	YANG, J., et al., "Anomalous crystal packing of iptycene secondary diamides leading to novel chain and channel networks," <i>Tetrahedron Letters</i> , 41, Issue 41, (2000), pp. 7911-7915	
	C55	ZHANG, G., et al., "Formation of Novel Polymeric Nanoparticles," <i>Acc. Chem. Res.</i> , 34, (2001), pp: 249-256	
	C56	ZHANG, S., et al., "Fluorescent Detection of Chemical Warfar Agents: Specific Ratiometric Chemosensors,"	
	C57	ZHOU, Q., et al., "Methodology for Enhancing the Sensitivity of Fluorescent Chemosensors: Energy Migration In Conjugated Polymers," <i>Journal of the American Chemical Society</i> , 117(26). (1995), pp. 7017-7018	
✓	C58	ZHOU, Q., et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Approach to Increased Sensitivity," <i>J. Am. Chem. Soc.</i> , 117(50), (1995), pp: 12593-12602	
T. Z.	C59	International Search Report for PCT/US03/22702 mailed January 29, 2004	

EXAMINE R	<i>G. Boreiko</i>	DATE CONSIDERED	<i>3/2/05</i>
-----------	-------------------	-----------------	---------------

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]